PHOTOVOLTAIC ROOF MOUNT SYSTEM

14 MODULES-ROOF MOUNTED - 5.530 kW DC, 6.000 kW AC 444 DEER VIEW, SANFORD, NC 27332

PROJECT DATA

PROJECT ADDRESS 444 DEER VIEW, SANFORD, NC 27332

OWNER:

BRIAN WOODS

DESIGNER:

SCOPE: 5.530 KW DC ROOF MOUNT

ESR

SOLAR PV SYSTEM WITH

14 JINKO SOLAR: JKM395M-72HBL-V 395W
PV MODULES WITH

14 SOLAREDGE: S440 POWER OPTIMIZERS AND 01 SOLAREDGE: SE6000H-US (240V/6000W)

INVERTER

AUTHORITIES HAVING JURISDICTION: BUILDING: HARNETT COUNTY ZONING: HARNETT COUNTY UTILITY: CENTRAL EMC

SHEET INDEX

PV-1 COVER SHEET PV-2 SITE PLAN

PV-3 ROOF PLAN & MODULES PV-4 ELECTRICAL PLAN

PV-5 STRUCTURAL DETAIL
PV-6 ELECTRICAL LINE DIAGRAM

PV-7 WIRING CALCULATIONS

PV-8 LABELS

PV-9+ EQUIPMENT SPECIFICATIONS

SIGNATURE

GENERAL NOTES

- 1. ALL COMPONENTS ARE UL LISTED AND CEC CERTIFIED, WHERE WARRANTED.
- 2. THE SOLAR PV SYSTEM WILL BE INSTALLED IN ACCORDANCE WITH ARTICLE 690 OF THE NEC 2017.
- THE UTILITY INTERCONNECTION APPLICATION MUST BE APPROVED AND PV SYSTEM INSPECTED PRIOR TO PARALLEL OPERATION.
- 4. ALL CONDUCTORS OF A CIRCUIT, INCLUDING THE EGC, MUST BE INSTALLED IN THE SAME RACEWAY, OR CABLE, OR OTHERWISE RUN WITH THE PV ARRAY CIRCUIT CONDUCTORS WHEN THEY LEAVE THE VICINITY OF THE PV ARRAY.
- 5. WHERE METALLIC CONDUIT CONTAINING DC CONDUCTORS IS USED INSIDE THE BUILDING, IT SHALL BE IDENTIFIED AS "CAUTION: SOLAR CIRCUIT" EVERY 10FT.
- HEIGHT OF THE AC DISCONNECT SHALL NOT EXCEED 6'-7" PER NEC CODE 240.24.
- 7. A GROUNDING ELECTRODE SYSTEM IN ACCORDANCE WITH CEC 690.47 AND 250.50 THROUGH 60 AND 250-166 SHALL BE PROVIDED. PER NEC GROUNDING ELECTRODE SYSTEM OF EXISTING BUILDING MAY BE USED AND BONDED TO THE SERVICE ENTRANCE. IF EXISTING SYSTEM IS INACCESSIBLE OR INADEQUATE A SUPPLEMENTAL GROUNDING ELECTRODE WILL BE USED AT THE INVERTER LOCATION CONSISTING OF A UL LISTED 8 FT. GROUND ROD WITH ACORN CLAMP. GROUNDING ELECTRODE CONDUCTORS SHALL BE NO LESS THAN #8 AWG AND NO LARGER THAN #6 AWG COPPER AND BONDED TO THE EXISTING GROUNDING ELECTRODE TO PROVIDE FOR A COMPLETE SYSTEM.
- 8. PHOTOVOLTAIC MODULES ARE TO BE CONSIDERED NON-COMBUSTIBLE
- 9. PHOTOVOLTAIC INSTALLATION WILL NOT OBSTRUCT ANY PLUMBING. MECHANICAL, OR BUILDING ROOF VENTS.
- ALL WIRING MUST BE PROPERLY SUPPORTED BY DEVICES OR MECHANICAL MEANS DESIGNED AND LISTED FOR SUCH USE.
 WIRING MUST BE PERMANENTLY AND COMPLETELY HELD OFF THE ROOF SURFACE.
- 11. ALL SINAGE TO BE PLACED IN ACCORDANCE WITH THE LOCAL BUILDING CODE. IF EXPOSED TO SUNLIGHT, IT SHALL BE UV RESISTANT. ALL PLAQUES AND SINAGE WILL BE INSTALLED AS REQUIRED BY THE NEC AND AHJ.
- 12. INVERTER(S) USED IN UNGROUNDED SYSTEM SHALL BE UL 1741 LISTED.
- 13. THE INSTALLATION OF EQUIPMENT AND ALL ASSOCIATED WIRING AND INTERCONNECTION SHALL BE PERFORMED ONLY BY QUALIFIED PERSONS [NEC 690.4(C)]
- 14. ALL OUTDOOR EQUIPMENT SHALL BE NEMA 3R RATED (OR BETTER), INCLUDING ALL ROOF MOUNTED TRANSITION BOXES AND SWITCHES.
- 15. ALL EQUIPMENT SHALL BE PROPERLY GROUNDED AND BONDED IN ACCORDANCE WITH NEC ARTICLE 250.
- 16. SYSTEM GROUNDING SHALL BE IN ACCORDANCE WITH NEC 690.41.
- 17. PV SYSTEM CIRCUITS INSTALLED ON OR IN BUILDINGS SHALL INCLUDE A RAPID SHUTDOWN FUNCTION IN ACCORDANCE WITH NEC 690.12
- 18. DISCONNECTING MEANS SHALL BE LOCATED IN A VISIBLE, READILY ACCESSIBLE LOCATION WITHIN THE PV SYSTEM EQUIPMENT OR A MAXIMUM OF 10 FEET AWAY FROM THE SYSTEM [NEC 690.13(A)]
- 19. ALL WIRING METHODS SHALL BE IN ACCORDANCE WITH NEC 690.31
- 20. WORK CLEARANCES AROUND ELECTRICAL EQUIPMENT WILL BE MAINTAINED PER NEC 110.26(A)(1), 110.26(A)(2) AND 110.26(A)(3).
- 21. ROOFTOP MOUNTED PHOTOVOLTAIC PANELS AND MODULES SHALL BE TESTED, LISTED & IDENTIFIED IN ACCORDANCE WITH UL1703
- 22. ELECTRICAL CONTRACTOR TO PROVIDE CONDUIT EXPANSION JOINTS AND ANCHOR CONDUIT RUNS AS REQUIRED PER NEC.

VICINITY MAP



HOUSE PHOTO



CODE REFERENCES

2018 NORTH CAROLINA BUILDING CODE 2018 NORTH CAROLINA RESIDENTIAL CODE 2018 NORTH CAROLINA FIRE CODE 2017 NATIONAL ELECTRICAL CODE

TOP TIER

TOP TIER SOLAR SOLUTIONS

1530 CENTER PARK DR #2911, CHARLOTTE, NC 28217, UNITED STATES

REVISIONS							
DESCRIPTION	DATE	REV					
INITIAL DESIGN	12/11/2023						
AS BUILT	12/14/2023	Α					



PROJECT NAME & ADDRESS

BRIAN WOODS RESIDENCE 444 DEER VIEW, SANFORD, NC 27332

DRAWN BY

SHEET NAME

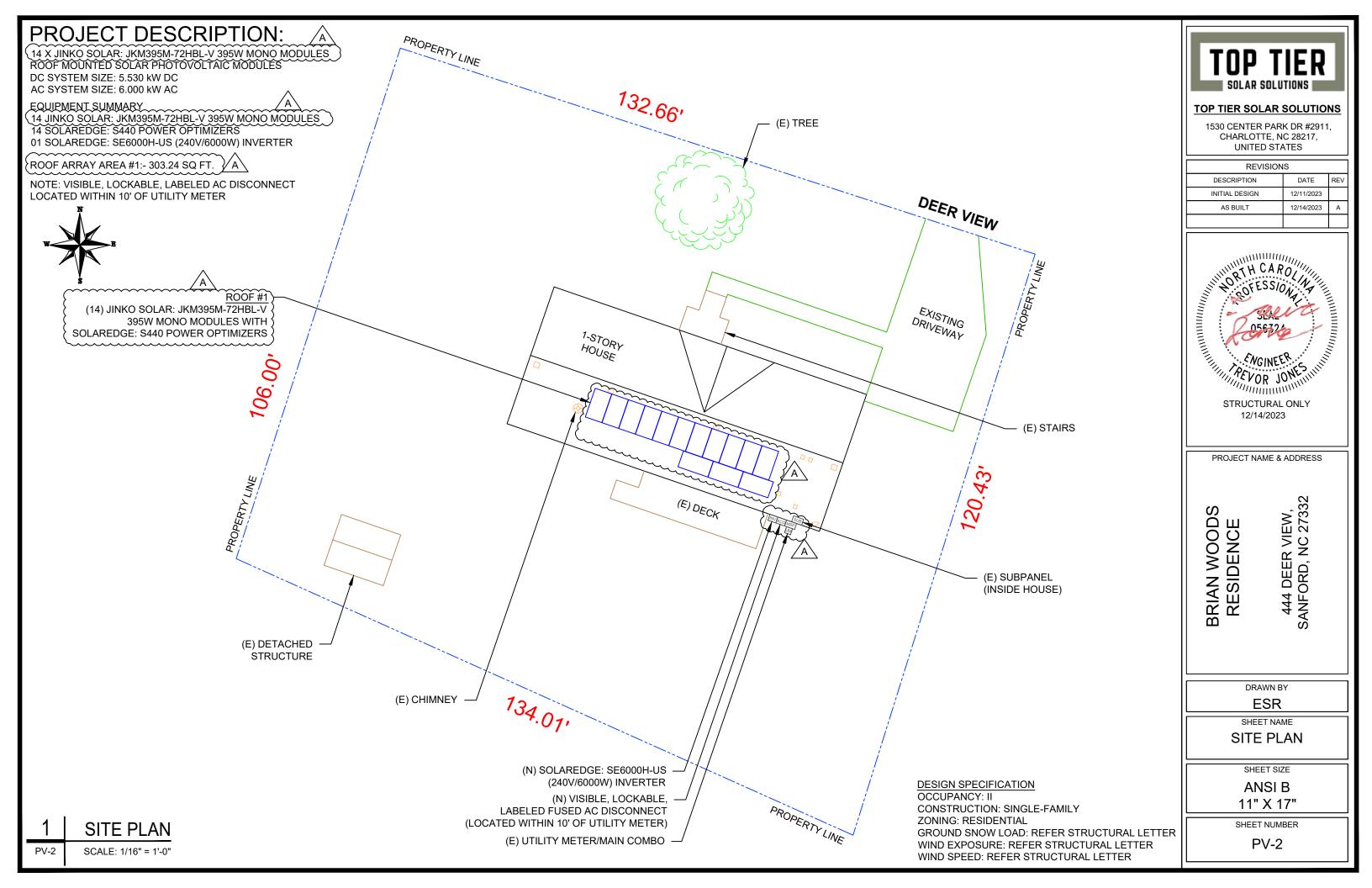
COVER SHEET

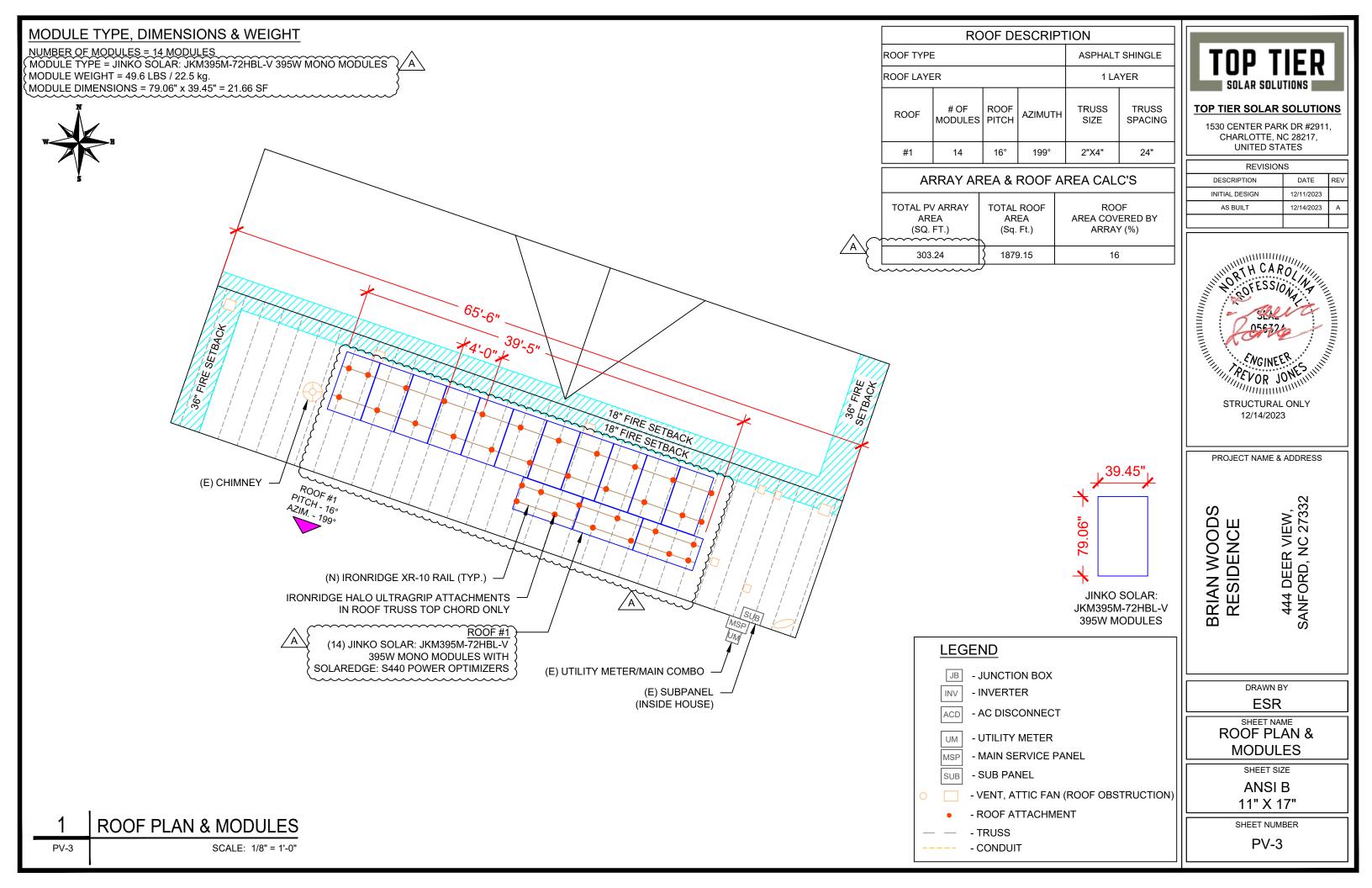
SHEET SIZE

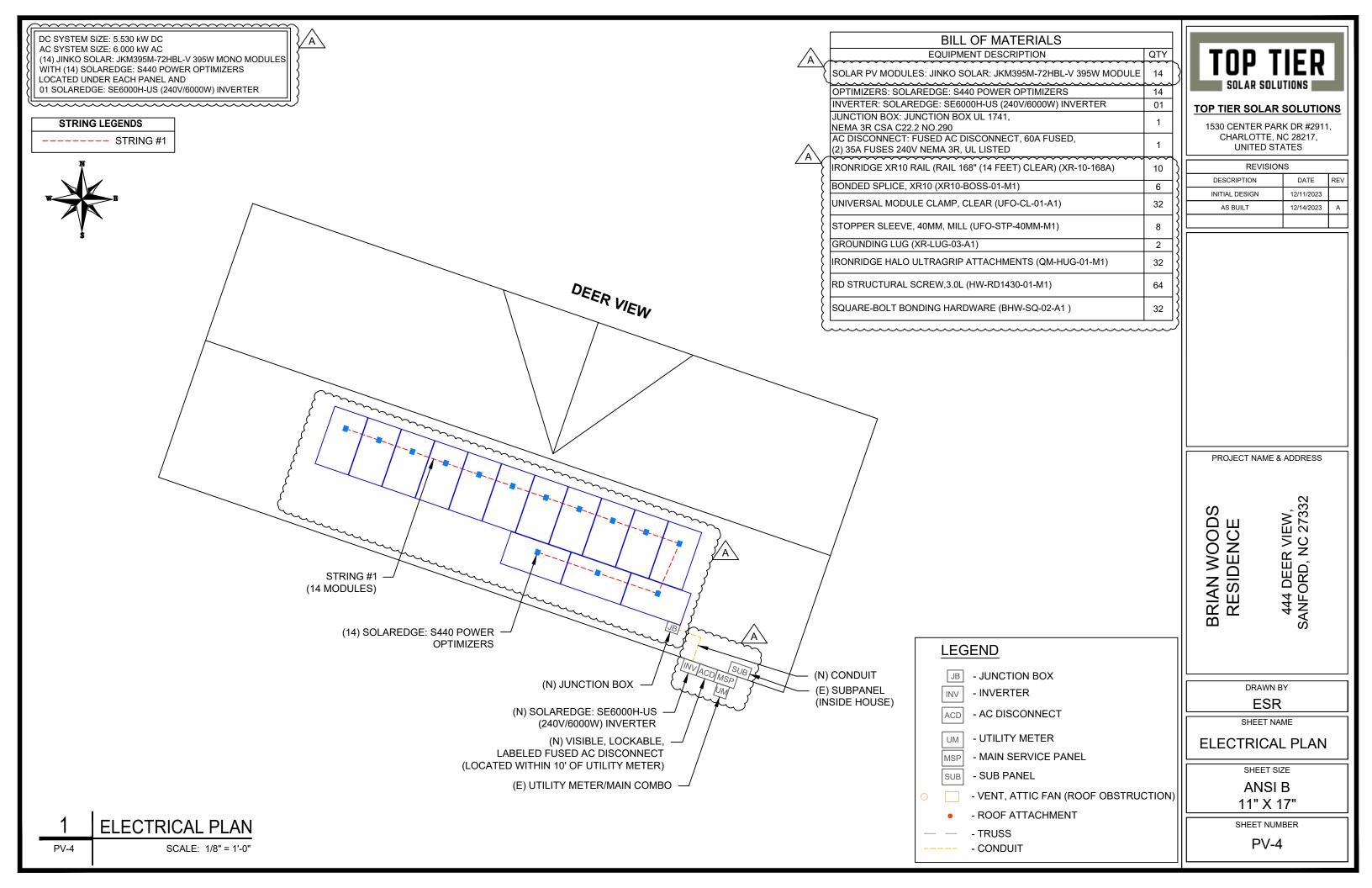
ANSI B

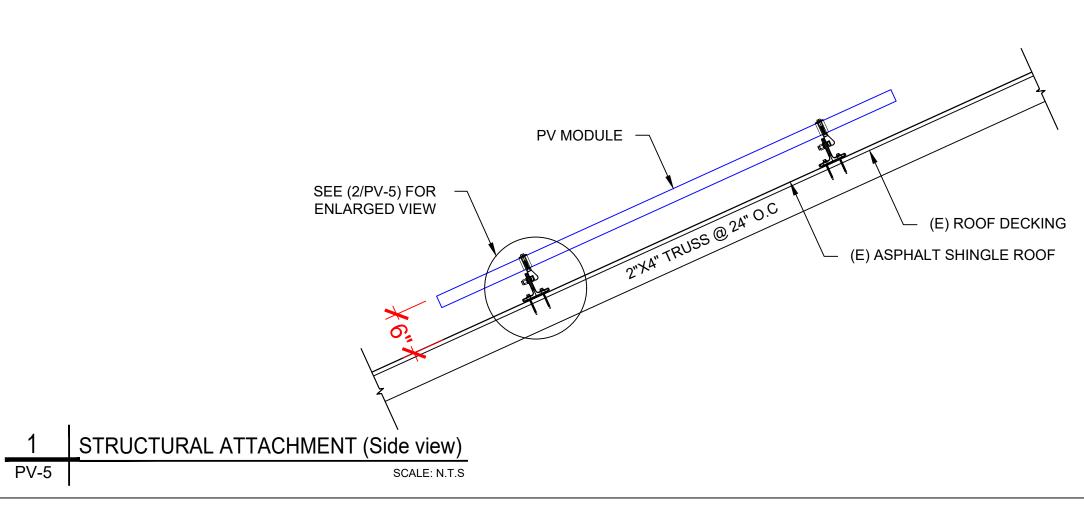
11" X 17"

SHEET NUMBER







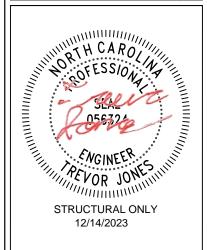




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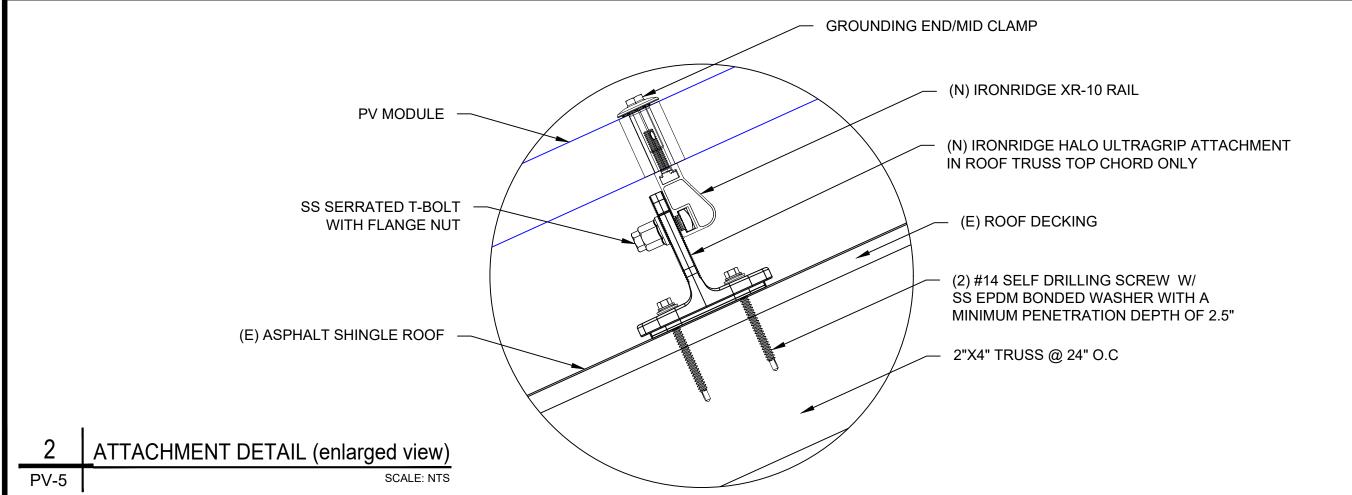
STRUCTURAL DETAIL

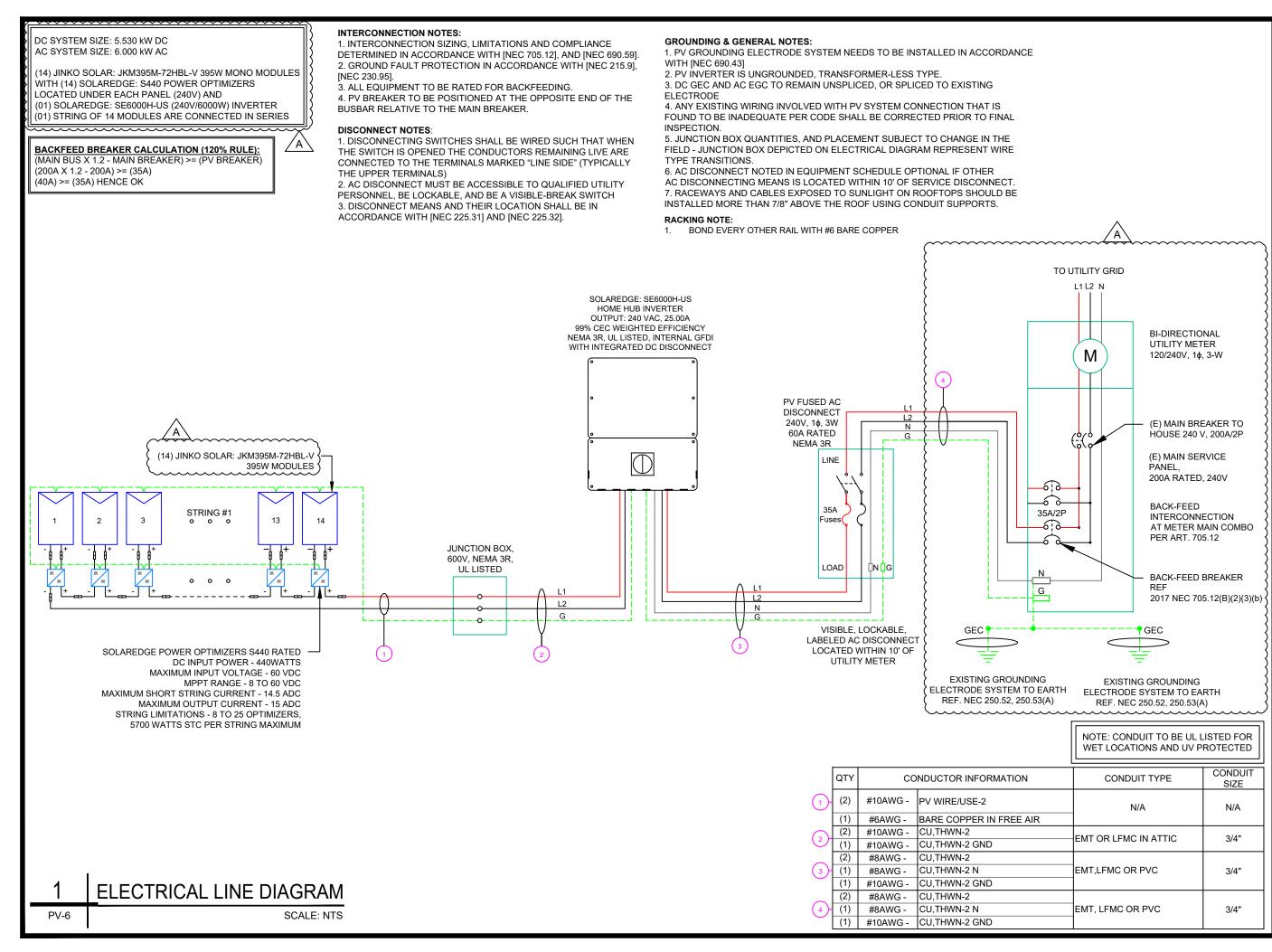
SHEET SIZE

ANSI B

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SHEET NUMBER





TOP TIER
SOLAR SOLUTIONS

TOP TIER SOLAR SOLUTIONS

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DRAWN BY

444 DEER VIEW, SANFORD, NC 27332

SHEET NAME

ELECTRICAL LINE DIAGRAM

SHEET SIZE ANSI B

11" X 17"

SHEET NUMBER PV-6

7	······	······	\					
•[SOLAR M	ODULE SPECIFICATIONS	INVERTER SPECIFICATIONS					
,	MANUFACTURER / MODEL #	JINKO SOLAR: JKM395M-72HBL-V 395W	MANUFACTURER /	/ N/()) - #	SOLAREDGE: SE6000H-UINVERTER	JS (240V/6000W)		
!	WITHOUT TOTALITY MIGDLE #	MODULE	NOMINAL AC POW	'ER	6.000 kW			
ļ			NOMINAL OUTPUT	VOLTAGE	240 VAC			
·	VMP	39.90V	NOMINAL OUTPUT	CURRENT	25.00A			
١,	IMP	9.90A	<u> </u>	OOTATELITE	20.0071			
<u>'</u>	VOC	48.80V	PERCENT OF		R OF CURRENT			
Ţ	ISC	10.54A	\ VALUES	CARRYING C	ONDUCTORS IN EMT			
,	TEMP. COEFF. VOC	-0.29%/°C	.80		4-6			
٠ŀ		70.06"L v 30.45"M v 1.57"D (In Inch)	.70		7-9			

.50

	AMBIENT TEMPERATURE SPECS	<u>S</u>	
	AMBIENT TEMP (HIGH TEMP 2%)	38°	
	RECORD LOW TEMPERATURE	-11°	
{	MODULE TEMPERATURE COEFFICIENT OF Voc	-0.29%/°C	
`			$\dot{}$



79.06"L x 39.45"W x 1.57"D (In Inch)

	DC FEEDER CALCULATIONS																				
CIRCUIT ORIGIN	CIRCUIT DESTINATION	VOLTAGE (V)	FULL LOAD AMPS "FLA" (A)		OCPD SIZE (A)	GROUND SIZE	CONDUCTOR SIZE	75°C AMPACITY (A)	AMPACITY CHECK #1	AMBIENT TEMP. (°C)	TOTAL CC CONDUCT ORS IN RACEWAY	90°C AMPACITY (A)	FOR AMBIENT	DERATION FACTOR FOR CONDUCTORS PER RACEWAY NEC 310.15(B)(3)(a)	90°C AMPACITY DERATED (A)	AMPACITY CHECK #2		CONDUCTOR RESISTANCE (OHM/KFT)	VOLTAGE DROP AT FLA (%)	CONDUIT	CONDUIT FILL (%)
STRING 1	JUNCTION BOX	380	15.00	18.75	20	BARE COPPER #6 AWG	CU #10 AWG	35	PASS	38	2	40	0.91	1	36.4	PASS	5	1.24	0.049	N/A	#N/A
JUNCTION BOX	INVERTER	380	15.00	18.75	20	CU #10 AWG	CU #10 AWG	35	PASS	38	2	40	0.91	1	36.4	PASS	20	1.24	0.196	3/4" EMT	11.87617

10-20

String 1 Voltage Drop 0.245

	AC FEEDER CALCULATIONS																					
CIRCUIT ORIGIN	CIRCUIT DESTINATION	VOITAGE	FULL LOAD AMPS "FLA" (A)	FLA*1.25 (A)	OCPD SIZE (A)	NEUTRAL SIZE	GROUND SIZE	CONDUCTOR SIZE	75°C AMPACITY (A)	AMPACITY CHECK #1	AMBIENT TEMP. (°C)	TOTAL CC CONDUCTORS IN RACEWAY	90°C AMPACITY (A)	FOR AMBIENT	DERATION FACTOR FOR CONDUCTORS PER RACEWAY NEC 310.15(B)(3)(a)		AMPACITY CHECK #2	FEEDER LENGTH (FEET)	CONDUCTOR RESISTANCE (OHM/KFT)		CONDUIT	CONDUIT FILL (%)
INVERTER	AC DISCONNECT	240	25	31.25	35	CU #8 AWG	CU #10 AWG	CU #8 AWG	50	PASS	38	2	55	0.91	1	50.05	PASS	5	0.778	0.081	3/4" EMT	24.5591
AC DISCONNECT	POI	240	25	31.25	35	CU #8 AWG	CU #10 AWG	CU #8 AWG	50	PASS	38	2	55	0.91	1	50.05	PASS	5	0.778	0.081	3/4" EMT	24.5591

CUMULATIVE VOLTAGE DROP 0.162

ELECTRICAL NOTES

MODULE DIMENSION

- 1. ALL EQUIPMENT TO BE LISTED BY UL OR OTHER NRTL, AND LABELED FOR ITS APPLICATION.
- 2. ALL CONDUCTORS SHALL BE COPPER, RATED FOR 600 V AND 90 DEGREE C WET ENVIRONMENT.
- 3. WIRING, CONDUIT, AND RACEWAYS MOUNTED ON ROOFTOPS SHALL BE ROUTED DIRECTLY TO, AND LOCATED AS CLOSE AS POSSIBLE TO THE NEAREST RIDGE, HIP, OR VALLEY.
- 4. WORKING CLEARANCES AROUND ALL NEW AND EXISTING ELECTRICAL EQUIPMENT SHALL COMPLY WITH NEC 110.26.
- 5. DRAWINGS INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS. CONTRACTOR SHALL FURNISH ALL NECESSARY OUTLETS, SUPPORTS, FITTINGS AND ACCESSORIES TO FULFILL APPLICABLE CODES AND STANDARDS.
- 6. WHERE SIZES OF JUNCTION BOX, RACEWAYS, AND CONDUITS ARE NOT SPECIFIED, THE CONTRACTOR SHALL SIZE THEM ACCORDINGLY.
- 7. ALL WIRE TERMINATIONS SHALL BE APPROPRIATELY LABELED AND READILY VISIBLE.
- 8. MODULE GROUNDING CLIPS TO BE INSTALLED BETWEEN MODULE FRAME AND MODULE SUPPORT RAIL, PER THE GROUNDING CLIP MANUFACTURER'S INSTRUCTION.
- 9. MODULE SUPPORT RAIL TO BE BONDED TO CONTINUOUS COPPER G.E.C. VIA WEEB LUG OR ILSCO GBL-4DBT LAY-IN
- 10. TEMPERATURE RATINGS OF ALL CONDUCTORS, TERMINATIONS, BREAKERS, OR OTHER DEVICES ASSOCIATED WITH THE SOLAR PV SYSTEM SHALL BE RATED FOR AT LEAST 75 DEGREE C.



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DRAWN BY

444 DEER VIEW, SANFORD, NC 27332

SHEET NAME

WIRING CALCULATIONS

SHEET SIZE

ANSI B 11" X 17"

SHEET NUMBER

PHOTOVOLTAIC POWER SOURCE

EVERY 10' ON CONDUIT & ENCLOSURES

LABEL- 1: LABEL LOCATION: EMT/CONDUIT RACEWAY SOLADECK / JUNCTION BOX CODE REF: NEC 690.31 (D)(2)

⚠ WARNING

ELECTRIC SHOCK HAZARD

TERMINALS ON THE LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION

LABEL - 2: LABEL LOCATION: AC DISCONNECT CODE REF: NEC 690.13(B)

⚠ WARNING

DUAL POWER SUPPLY

SOURCE: UTILITY GRID AND PV SOLAR ELECTRIC SYSTEM

LABEL- 3:
LABEL LOCATION:
MAIN SERVICE PANEL
CODE REF: NEC 705.12(C) & NEC 690.59

SOLAR PV BREAKER:

BREAKER IS BACKFED DO NOT RELOCATE

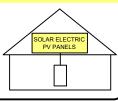
LABEL-4:
LABEL LOCATION:
MAIN SERVICE PANEL
CODE REF: NEC 705.12(C) & NEC 690.59

POWER SOURCE OUTPUT CONNECTION. DO NOT RELOCATE THIS OVERCURRENT DEVICE

LABEL- 5: <u>LABEL LOCATION:</u> MAIN SERVICE PANEL (ONLY IF SOLAR IS BACK-FED) SUBPANEL (ONLY IF SOLAR IS BACK-FED) CODE REF: NEC 705.12(B)(3)(2)

SOLAR PV SYSTEM EQUIPPED WITH RAPID SHUTDOWN

TURN RAPID SHUTDOWN
SWITCH TO THE
"OFF" POSITION TO
SHUT DOWN PV SYSTEM
AND REDUCE
SHOCK HAZARD
IN THE ARRAY



LABEL - 6: LABEL LOCATION: AC DISCONNECT

CODE REF: [NEC 690.56(C)(1)(A)]

RAPID SHUTDOWN SWITCH FOR SOLAR PV SYSTEM

LABEL- 7:

<u>LABEL LOCATION:</u>
AC DISCONNECT

MAIN SERVICE PANEL (ONLY IF SOLAR IS BACK-FED)

CODE REF: NEC 690.56(C)(2)

DC DISCONNECT

LABEL- 8: LABEL LOCATION: INVERTER CODE REF: NEC 690.13(B)

AC DISCONNECT PHOTOVOLTAIC SYSTEM POWER SOURCE NOMINAL OPERATING AC VOLATGE 240 V

RATED AC OUTPUT CURRENT

25.00 A

LABEL- 9: LABEL LOCATION: AC DISCONNECT CODE REF: NEC 690.54

MAXIMUM VOLTAGE

MAXIMUM CIRCUIT CURRENT

MAXIMUM RATED OUTPUT
CURRENT OF THE CHARGE
CONTROLLER OR DC-TO-DC
CONVERTER (IF INSTALLED)

LABEL- 10:
<u>LABEL LOCATION:</u>
ON THE RIGHT SIDE OF THE INVERTER (PRE-EXISTING ON THE INVERTER)
CODE REF: NEC 690.53



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DRAWN BY
ESR

SHEET NAME

LABELS

SHEET SIZE

ANSI B

11" X 17"

SHEET NUMBER PV-8





380-400 WATT • MONO PERC HALF-CELL MODULE

Positive power tolerance of 0~+3%

- · NYSE-listed since 2010, Bloomberg Tier 1 manufacturer
- . Top performance in the strictest 3rd party labs
- · Automated manufacturing utilizing artificial intelligence
- · Vertically integrated, tight controls on quality
- · Premium solar module factory in Jacksonville, Florida



KEY FEATURES



Superior Aesthetics

Black backsheet and black frame create ideal look for residential applications



Diamond Half-Cell Technology

World-record breaking efficient mono PERC half-cells deliver high power in a small footprint.



Thick and Tough

Fire Type 1 rated module engineered with a thick frame, 3.2mm front side glass, and thick backsheet for added durability.



Shade Tolerant

Twin array design allows continued performance even with shading by trees or debris.



Protected Against All Environments

Certified to withstand humidity, heat, rain, marine environments, wind, hailstorms, and packed snow.

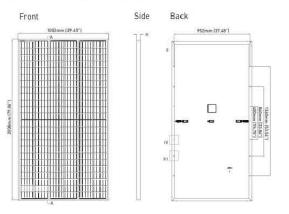


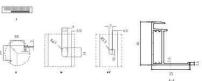
25-year product and 25-year linear power warranty.



- ISO9001:2008 Quality Standards
- ISO14001:2004 Environmental Standards
- IEC61215, IEC61730 certified
- ISO 45001 2018 Occupational
- Health & Safety Standards
- UL1703/61730 certified

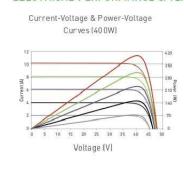
ENGINEERING DRAWINGS

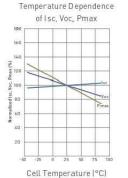




Length: ± 2mm Width: ± 2mm Height: ± 1mm

ELECTRICAL PERFORMANCE & TEMPERATURE DEPENDENCE





Operating Temperature (°C) Maximum System Voltage Maximum Series Fuse Rating PACKAGING CONFIGURATION (Two pallets = One stack) 27pcs/pallet, 54pcs/stack, 594pcs/40'HQ Container

25-year product and 25-year linear power warranty

MECHANICAL CHARACTERISTICS

144 (6 x 24)

IP68 Rated

TEMPERATURE CHARACTERISTICS

Nominal Operating Cell Temperature (NOCT)

Temperature Coefficients of Pmax

Temperature Coefficients of Voc

Temperature Coefficients of Isc

MAXIMUM RATINGS

WARRANTY

22.5kg (49.6lbs)

Cells

No. of Half Cells

Front Glass

Junction Box

Output Cables

Hailstone Test

Connector

Fire Type Pressure Rating

Frame

Mono PERC Diamond Cell (158.75 x 158.75mm)

2008 x 1002 x 40mm (79.06 x 39.45 x 1.57in)

High Transmission, Low Iron, Tempered Glass

-0.35%/°C

-0.29%/°C

45±2°C

-40°C~+85°C

1500VDC (UL and IEC)

JinKO Solar

3.2mm, Anti-Reflection Coating

Anodized Aluminum Allov

12 AWG, 1400mm (55.12in)

5400Pa (Snow) & 2400Pa (Wind)

50mm Hailstones at 35m/s

Staubli MC4 Series

1st year degradation not to exceed 2.5%, each subsequent year not to exceed 0.6%, minimum power at year 25 is 83.1% or greater

ELECTRICAL CHARACTERISTICS

Module Type	JKM380M	-72HBL-V	JKM385M-72HBL-V		JKM390M-72HBL-V		JKM395N	1-72HBL-V	JKM400M-72HBL-V		
	STC	NOCT	STC	NOCT	SCT	NOCT	STC	NOCT	STC	NOCT	
Maximum Power (Pmax)	380Wp	280Wp	385Wp	283Wp	390Wp	287Wp	395Wp	291Wp	400Wp	294Wp	
Maximum Power Voltage (Vmp)	39.10V	36.5V	39.37V	36.8V	39.64V	37.0V	39.90V	37.4V	40.16V	37.6V	
Maximum Power Current (Imp)	9.72A	7.67A	9.78A	7.71A	9.84A	7.75A	9.90A	7.77A	9.96A	7.82A	
Open-circuit Voltage (Voc)	48.2V	45.4V	48.4V	45.6V	48.6V	45.8V	48.8V	46.0V	49.1V	46.2V	
Short-circuit Current (lsc)	10.30A	8.32A	10.38A	8.38A	10.46A	8.45A	10.54A	8.51A	10.61A	8.57A	
Module Efficiency STC [%]	18.8	9%	19.	13%	19.3	38%	19.	63%	19.	88%	

*STC: Irradiance 1000W/m2 NOCT: Irradiance 800W/m2 *Power measurement tolerance: ±3%

Cell Temperature 25°C Ambient Temperature 20°C $\triangle M = 1.5$ $\triangle AM = 1.5$

₩ind Speed 1m/s

The company reserves the final right for explanation on any of the information presented hereby. JKM380-400M-72HBL-V-F1-US

BUILDING YOUR TRUST IN SOLAR, WWW.JINKOSOLAR.US



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> DRAWN BY **ESR**

SHEET NAME **EQUIPMENT SPECIFICATION**

SHEET SIZE

ANSIB 11" X 17"

SHEET NUMBER

PV-9

BUILDING YOUR TRUST IN SOLAR, WWW.JINKOSOLAR.US



CERTIFICATE OF COMPLIANCE

Certificate Number E362479

Report Reference E362479-20200410

Date 2023-July-16

Issued to: JINKO SOLAR CO LTD

No.1, Yingbin Road, Economic Development Zone

Shangrao Jiangxi Sheng 334100 CN

This is to certify that representative samples of

PHOTOVOLTAIC MODULES AND PANELS WITH SYSTEM VOLTAGE RATINGS OVER 600 VOLTS

See Addendum Page for Product Designation(s).

Have been evaluated by UL in accordance with the

Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL 61730-1 - Standard for Photovoltaic (PV) Module Safety

Qualification - Part 1: Requirements for Construction, Edition 2, Issue Date 10/28/2022 and UL 61730-2, Photovoltaic (PV) Module Safety Qualification - Part 2: Requirements for Testing, Edition 2, Revision Date 04/25/2023 and CSA C22.2 No. 61730-1:19 December 2019, Photovoltaic (PV) module safety qualification — Part 1: Requirements for construction and CSA C22.2 No. 61730-2:19 December 2019, Photovoltaic (PV) module safety qualification — Part 2: Requirements for testing.

Additional Information:

See the UL Online Certifications Directory at

https://ig.ulprospector.com for additional information

This Certificate of Compliance indicates that representative samples of the product described in the certification report have met the requirements for UL certification. It does not provide authorization to apply the UL Mark. Only the Authorization Page that references the Follow-Up Services Procedure for ongoing surveillance provides authorization to apply the UL Mark.

Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Certification Mark on the product.

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h Jennings-Conner, VP Regulatory Services

UL LLC

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CERTIFICATE OF COMPLIANCE

Certificate Number E362479

Report Reference E362479-20200410

late 2023-July-16

JKM525N-72HL4-V, JKM530N-72HL4-V, JKM535N-72HL4-V, JKM540N-72HL4-V, JKM545N-72HL4-V, JKM550N-72HL4-V, JKM555N-72HL4-V, JKM560N-72HL4-V, JKM565N-72HL4-V, JKM570N-72HL4-V, JKM575N-72HL4-V.

JKM480N-66HL4-V, JKM485N-66HL4-V, JKM490N-66HL4-V, JKM495N-66HL4-V, JKM500N-66HL4-V, JKM505N-66HL4-V, JKM515N-66HL4-V, JKM520N-66HL4-V, JKM525N-66HL4-V, JKM525N-66HL4-V

JKM435N-60HL4-V, JKM440N-60HL4-V, JKM45N-60HL4-V, JKM45N-60HL4-V, JKM45N-60HL4-V, JKM475N-60HL4-V, JKM475N-6

JKM395N-54HL4-V, JKM400N-54HL4-V, JKM405N-54HL4-V, JKM410N-54HL4-V, JKM415N-54HL4-V, JKM420N-54HL4-V, JKM425N-54HL4-V, JKM430N-54HL4-V.

JKM565M-78HL4-V, JKM570M-78HL4-V, JKM575M-78HL4-V, JKM580M-78HL4-V, JKM590M-78HL4-V, JKM595M-78HL4-V, JKM600M-78HL4-V, JKM605M-78HL4-V

JKM370M-72HBL-V, JKM375M-72HBL-V, JKM380M-72HBL-V, JKM385M-72HBL-V, JKM390M-72HBL-V, JKM395M-72HBL-V, JKM400M-72HBL-V, JKM405M-72HBL-V, JKM410M-72HBL-V, JKM415M-72HBL-V, JKM420M-72HBL-V.

JKM330M-60HBL-V, JKM335M-60HBL-V, JKM340M-60HBL-V, JKM345M-60HBL-V, JKM350M-60HBL-V

JKM515N-72HL4-B-V, JKM520N-72HL4-B-V, JKM525N-72HL4-B-V, JKM530N-72HL4-B-V, JKM535N-72HL4-B-V, JKM540N-72HL4-B-V, JKM545N-72HL4-B-V, JKM555N-72HL4-B-V, JKM560N-72HL4-B-V, JKM565N-72HL4-B-V, JKM570N-72HL4-B-V, JKM565N-72HL4-B-V, JKM570N-72HL4-B-V, JKM565N-72HL4-B-V, JKM570N-72HL4-B-V, JKM560N-72HL4-B-V, JKM560N-72HL4

JKM475N-66HL4-B-V, JKM480N-66HL4-B-V, JKM485N-66HL4-B-V, JKM490N-66HL4-B-V, JKM495N-66HL4-B-V, JKM500N-66HL4-B-V, JKM505N-66HL4-B-V, JKM510N-66HL4-B-V, JKM515N-66HL4-B-V, JKM520N-66HL4-B-V.

JKM430N-60HL4-B-V, JKM435N-60HL4-B-V, JKM440N-60HL4-B-V, JKM445N-60HL4-B-V, JKM450N-60HL4-B-V, JKM455N-60HL4-B-V, JKM460N-60HL4-B-V, JKM465N-60HL4-B-V, JKM470N-60HL4-B-V.

JKM385N-54HL4-B-V, JKM390N-54HL4-B-V, JKM395N-54HL4-B-V, JKM400N-54HL4-B-V, JKM405N-54HL4-B-V, JKM410N-54HL4-B-V, JKM415N-54HL4-B-V, JKM420N-54HL4-B-V, JKM425N-54HL4-B-V, JKM430N-54HL4-B-V, JKM435N-54HL4-B-V, JKM440N-54HL4-B-V, JKM435N-54HL4-B-V, JKM440N-54HL4-B-V, JKM435N-54HL4-B-V, JKM440N-54HL4-B-V, JKM44N-M-X, JKM44N-X, JKM44N-X, JKM44N-X, JKM44N-X, JKM44N-X, JKM4N-X, JKM4N-X, JKM4N-X,

JKM585N-78HL4R-V, JKM590N-78HL4R-V, JKM595N-78HL4R-V, JKM600N-78HL4R-V, JKM605N-78HL4R-V, JKM610N-78HL4R-V, JKM615N-78HL4R-V, JKM625N-78HL4R-V, JKM625N-78HL4R-V, JKM630N-78HL4R-V, JKM635N-78HL4R-V, JKM630N-78HL4R-V, JKM640N-78HL4R-V, JKM645N-78HL4R-V, JKM650N-78HL4R-V

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Deborah Jennings-Conner, VP Regulatory Service

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PROJECT NAME & ADDRESS

RIAN WOODS RESIDENCE

DRAWN BY

444 DEER VIEW, SANFORD, NC 27332

ESR

SHEET NAME
EQUIPMENT
SPECIFICATION

SHEET SIZE

ANSI B 11" X 17"

SHEET NUMBER

Power Optimizer

For Residential Installations

S440 / S500 / S500B / S650B



Enabling PV power optimization at the module level

- Specifically designed to work with SolarEdge residential inverters
- Detects abnormal PV connector behavior, preventing potential safety issues*
- Module-level voltage shutdown for installer and firefighter safety
- Superior efficiency (99.5%)

- / Mitigates all types of module mismatch loss, from manufacturing tolerance to partial shading
- Faster installations with simplified cable management and easy assembly using a single bolt
- Flexible system design for maximum space
- Compatible with bifacial PV modules



/ Power Optimizer

For Residential Installations

S440 / S500 / S500B / S650B

	S440	S500	S500B	S650B	UNIT
INPUT					
Rated Input DC Power ⁽¹⁾	440	5	500	650	W
Absolute Maximum Input Voltage (Voc)	60)	125	85	Vdc
MPPT Operating Range	8-	60	12.5 - 105	12.5 - 85	Vdc
Maximum Short Circuit Current (Isc) of Connected PV Module	14.5		15		Adc
Maximum Efficiency		9	9,5		%
Weighted Efficiency		9	8.6		%
Overvoltage Category			II		
OUTPUT DURING OPERTION					
Maximum Output Current			15		Adc
Maximum Output Voltage	60)	8	30	Vdc
OUTPUT DURING STANDBY (POWER OPTIMIZER	DISCONNECTED	FROM INVERTER	OR INVERTER OF	F)	
Safety Output Voltage per Power Optimizer	1 ± 0.1				Vdc
STANDARD COMPLIANCE(2)					
EMC	FCC Part 1	5 Class B, IEC61000-6-2	2, IEC61000-6-3, CISPR11, I	EN-55011	1
Safety	IEC62109-1 (class II safety), UL1741				
Material		UL94 V-0,	UV Resistant		
RoHS)	/es		
Fire Safety		VDE-AR-E 21	00-712:2018-12		
INSTALLATION SPECIFICATIONS					
Maximum Allowed System Voltage		10	000		Vdc
Dimensions (W x L x H)	129 x 15	5 x 30	129 x 1	65 x 45	mm
Weight	72	0	7.	90	gr
Input Connector		M	C4 ⁽³⁾		
Input Wire Length			0,1		m
Output Connector		N	1C4		
Output Wire Length		(+) 2.3	, (-) 0.10		m
Operating Temperature Range ⁽⁴⁾		-40 t	to +85		°C
Protection Rating		(F	68		
Relative Humidity		0 -	- 100		%

(1) Rated power of the module at STC will not exceed the Power Optimizer Rated Input DC Power. Modules with up to +5% power tolerance are allowed

(2) For details about CE compliance, see <u>Declaration of Conformity – CE</u>.

(3) For other connector types please contact SolarEdge.
(4) Power de-rating is applied for ambient temperatures above +85°C for S440 and S500, and for ambient temperatures above +75°C for S500B. Refer to the

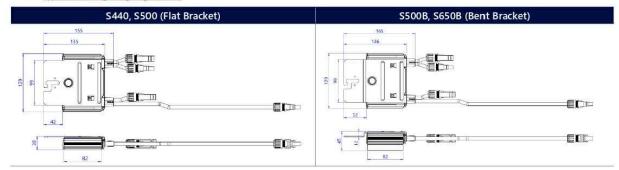
Power Optimizers Temperature De-Rating Technical Note for details.

PV System Design Usi	ng a Solar Edge Inverter ⁽⁵⁾	SolarEdge Home Wave Inverter Single Phase	SolarEdge Home Short String Inverter Three Phase	Three Phase for 230/400V Grid	Three Phase for 277/480V Grid	
Minimum String Length	\$440, \$500	8	9	16	18	
(Power Optimizers)	S500B, S650B	6	8	1	4	
Maximum String Length (Po	ower Optimizers)	25	20	5	0	
Maximum Continuous Pow	er per String	5700	5625	11250	12750	W
	ted Power per String naximum is permitted only when the between strings is 2,000W or less)	See ⁽⁶⁾	See ⁽⁶⁾	13500	15000	W
Parallel Strings of Different	Lengths or Orientations		Yes			

(5) It is not allowed to mix S-series and P-series Power Optimizers in new installations in the same string.

(6) If the inverter's rated AC power s maximum nominal power per string, then the maximum power per string will be able to reach up to the inverters maximum input DC power

Refer to Application Note: Single String Design Guidelines



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CE RoHS

TOP TIER SOLAR SOLUTIONS

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PROJECT NAME & ADDRESS

BRIAN WOODS RESIDENCE

444 DEER VIEW, SANFORD, NC 27332

DRAWN BY **ESR**

SHEET NAME **EQUIPMENT SPECIFICATION**

SHEET SIZE

ANSI B 11" X 17"

SHEET NUMBER

^{*} Functionality subject to inverter model and firmware version

SolarEdge Home Hub Inverter

For North America

SE3800H-US / SE5700H-US / SE6000H-US / SE7600H-US / SE10000H-US / SE11400H-US⁽¹⁾



Optimized battery storage with HD-Wave technology

- Record-breaking 99% weighted efficiency with 200% DC oversizing
- Small, lightweight, and easy to install
- Modular design, future ready with optional
 - DC-coupled storage for full or partial home
 - Built-in consumption monitoring
 - Direct connection to the SolarEdge Home **EV** Charger

- Multi-inverter, scalable storage solution, with enhanced battery power up to 10kW
- Integrated arc fault protection and rapid shutdown for NEC 2014 – 2023, per article 690.11 and 690.12
- Embedded revenue grade production data, ANSI C12.20 Class 0.5



/ SolarEdge Home Hub Inverter For North America

SE3800H-US / SE5700H-US / SE6000H-US / SE7600H-US / SE10000H-US / SE11400H-US⁽¹⁾

Applicable to inverters with part number		SEXXX	XH-USMNBBXXX	/ SEXXXXH-USSN	BBXXX		
	SE3800H-US	SE5700H-US	SE6000H-US	SE7600H-US	SE10000H-US	SE11400H-US	Units
OUTPUT – AC ON GRID							
Rated AC Power	3800 @ 240V 3300 @ 208V	5760 @ 240V 5000 @ 208V	6000 @ 240V 5000 @ 208V	7600	10000	11400 @ 240V 10000 @ 208V	W
Maximum AC Power Output	3800 @ 240V 3300 @ 208V	5760 @ 240V 5000 @ 208V	6000 @ 240V 5000 @ 208V	7600	10000	11400 @ 240V 10000 @ 208	W
AC Output Voltage (Nominal)			208,	/ 240			Vac
AC Output Voltage (Range)			183 -	- 264			Vac
AC Frequency Range (min - nom - max)				0 - 60.5(2)			Hz
Maximum Continuous Output Current @ 240V	16	24	25	32	42	47.5	А
Maximum Continuous Output Current @ 208V	16	24	24	-	-	48	Α
GFDI Threshold				1			Α
Total Harmonic Distortion (THD)			<	3			%
Power Factor			1, adjustable				- 70
Utility Monitoring, Islanding Protection, Country Configurable Thresholds			y dajastasie Y				
Charge Battery from AC (if allowed)			Ye	oc			
Typical Nighttime Power Consumption				2.5			W
OUTPUT – AC BACKUP ⁽³⁾	1		-	2.3			
OUT OT - AC BACKOT				7600	10000		
Rated AC Power in Backup Operation ⁽⁴⁾	7600	5760	6000	11400*	11400*	11400	W
AC L-L Output Voltage Range in Backup			211 -	- 264			Vac
AC L-N Output Voltage Range in Backup			105 -	- 132			Vac
AC Frequency Range in Backup (min - nom - max)			55 – 6	60 – 65			Hz
Maximum Continuous Output Current in Backup Operation	32	24	25	32 47.5	42 47.5	47.5	А
GFDI		1		1			Α
THD			<	5			%
OUTPUT – SOLAREDGE HOME EV CHA	RGER AC						
Rated AC Power			96	500			W
AC Output Voltage Range			(300.50	- 264			Vac
On-Grid AC Frequency Range (min - nom - max)			59.3 – 6				Hz
Maximum Continuous Output Current @240V (grid, PV and battery)				10			Aac
INPUT – DC (PV AND BATTERY)							
Transformer-less, Ungrounded			Y	۵r			
Max Input Voltage			48				Vdc
Nom DC Input Voltage				30			Vdc
Reverse-Polarity Protection				es			Vuc
Ground-Fault Isolation Detection			600kΩ S				+
INPUT – DC (PV)			0008123	erisitivity			
Maximum DC Power @ 240V	7600	11520	12000	15200	20000	22800	W
			15-00-35-48-0006				
Maximum DC Power @ 208V	6600	10000	10000	20		20000	W
Maximum Input Current ⁽⁵⁾ @ 240V	20	16	16.5	30	30	30	Adc
Maximum Input Current ⁽⁵⁾ @ 208V	9	13.5	13.5	-	-	27	Adc
Max. Input Short Circuit Current			4				
Maximum Inverter Efficiency	99.2				%		
Waximum inverter Emelency	99 99 240V 99 98.5 @ 208V						

^{*} Supported with PN SExxxxH-USMNxxxxxx



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PROJECT NAME & ADDRESS

BRIAN WOODS RESIDENCE

444 DEER VIEW, SANFORD, NC 27332

DRAWN BY **ESR**

SHEET NAME **EQUIPMENT SPECIFICATION**

SHEET SIZE

ANSI B 11" X 17"

SHEET NUMBER

⁽¹⁾ These specifications apply to inverters with part numbers SExxxxH-USMNxxxx or SExxxxH-USSNxxxxx and connection unit model number DCD-1PH-US-PxH-F-x.

⁽²⁾ For other regional settings please contact SolarEdge support.
(3) Not designed for standalone applications and requires AC for commissioning. Backup functionality is only supported for 240V grid.

⁽⁴⁾ Rated AC power in Backup Operation is valid for installations with multiple inverters. For a single backup inverter operation, rated AC power in Backup is 90% of the value stated. (5) A higher current source may be used; the inverter will limit its input current to the values stated.

/ SolarEdge Home Hub Inverter

For North America

SE3800H-US / SE5700H-US / SE6000H-US / SE7600H-US / SE10000H-US / SE11400H-US⁽¹⁾

Applicable to inverters with part number	SEXXXXH-USMNBBXXX / SEXXXXH-USSNBBXXX						
	SE3800H-US	SE5700H-US	SE6000H-US	SE7600H-US	SE10000H-US	SE11400H-US	Units
OUTPUT – DC (BATTERY)					l.		
Supported Battery Types		i i	SolarEdge Home Ba	ttery, LG RESU Prim	е		
Number of Batteries per Inverter		Up to 3	SolarEdge Home Ba	ittery, up to 2 LG RE	SU Prime		
Continuous Power ⁽⁶⁾	7600 @ 240V 3800 @ 208V	5760 @ 240V 5000 @ 208V	6000	114	400	11400 @ 240V 10000 @ 208V	W
Peak Power ⁽⁶⁾	7600 @ 240V 3800 @ 208V	5760 @ 240V 5000 @ 208V	6000	114	400	11400 @ 240V 10000 @ 208V	W
Max Input Current	20		·^	26.5			Add
2-pole Disconnection			Up to inverter rat	ted backup power			
SMART ENERGY CAPABILITIES							
Consumption Metering			Buil	t-in ⁽⁷⁾			
Backup & Battery Storage	Wit	n Backup Interface	(purchased separate	ely) for service up to	200A; up to 3 inve	rters	
EV Charging		Direc	t connection to Sol	arEdge Home EV Ch	narger		
ADDITIONAL FEATURES							
Supported Communication Interfaces		RS485, Ethernet, Cellular ^(8, 9) , Wi-Fi ⁽⁹⁾ , SolarEdge Home Network					
Revenue Grade Metering, ANSI C12.20			Buil	t-in ⁽⁷⁾			
Integrated AC, DC and Communication Connection Unit		Yes					
Inverter Commissioning	With	the SetApp mobile	application using b	uilt-in Wi-Fi Access	Point for local conn	ection	
DC Voltage Rapid Shutdown (PV and Battery)		Yes, accordi	ing to NEC 2014 – 2	023 per article 690.	11 and 690.12		
STANDARD COMPLIANCE							
Safety	l l	JL1741, UL1741 SA,	UL1741 SB, UL1741 P	CS, UL1699B, UL199	8, UL9540, CSA 22.	2	
Grid Connection Standards		IEEE1	547-2018, Rule 21, R	ule 14H, CSA C22.3	No. 9		
Emissions			FCC part	15 class B			
INSTALLATION SPECIFICATIONS							
AC Output and EV AC Output Conduit Size / AWG Range			1" maximun	n / 14-4 AWG			
DC Input (PV and Battery) Conduit Size / AWG Range			1" maximum	n / 14-6 AWG			
Dimensions with Connection Unit (H x W x D)	17.7 x	14.6 x 6.8 / 450 x 37	0 x 174	17.7 x 14.6 x 6.8 / 450 x 370 x 174**	21.06 x 14.6 x 7.3 / 535 x 370 x 185**	21.06 x 14.6 x 8.2 / 535 x 370 x 208***	in /
			21.06 x 14.6 x 8.2 / 535 x 370 x 208*** 35.3 x 370 x 21				
Weight with Connection Unit		30.8 / 14		170,700,000 0 0	20.3***	44.9 / 20.3***	lb/k
Noise			<	50			dBA
Cooling			Natural C	onvection			
Operating Temperature Range			-40 to +140 /	′-40 to +60 ⁽¹⁰⁾			°F/°
Protection Rating			NEM	1A 4X			

^{**} Supported with PN SEXXXXH-USSNBBXX4 or SEXXXXH-USMNBBXX4.



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BRIAN WOODS RESIDENCE

444 DEER VIEW, SANFORD, NC 27332

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SHEET NAME EQUIPMENT **SPECIFICATION**

SHEET SIZE

ANSI B 11" X 17"

SHEET NUMBER

^{***} Supported with PN SEXXXXH-USSNBBXX5 or SEXXXXH-USMNBBXX5.

⁽⁶⁾ Discharge power is limited up to the inverter rated AC power for on-grid and backup applications, as well as up to the installed batteries' rating.

(7) For consumption metering current transformers should be ordered separately: SECT-SPL-225A-T-20 or SEACT0750-400NA-20 units per box. Revenue grade metering is only for production metering.

⁽⁸⁾ Information concerning the Data Plan's terms & conditions is available in the following link: SolarEdge Communication Plan Terms and Conditions.

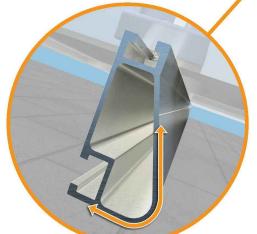
⁽⁹⁾ The part number SEXXXXH-USXNBBXXX only supports the Wi-Fi communication interface, and the part number SEXXXXH-USXNBBLXX only supports the cellular communication interface. (10) Full power up to at least 50°C / 122°F; for power de-rating information refer to the <u>Temperature Derating Technical Note for North America</u>.



of installation time.

XR Rail Family

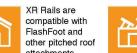
Solar Is Not Always Sunny Over their lifetime, solar panels experience countless extreme weather events. Not just the worst storms in years, but the worst storms in 40 years. High winds capable of ripping panels from a roof, and snowfalls weighing enough to buckle a panel frame. XR Rails are the structural backbone preventing these results. They resist uplift, protect against buckling and safely and efficiently transfer loads into the building structure. Their superior spanning capability requires fewer roof attachments, reducing the number of roof penetrations and the amount



Force-Stabilizing Curve

Sloped roofs generate both vertical and lateral forces on mounting rails which can cause them to bend and twist. The curved shape of XR Rails is specially designed to increase strength in both directions while resisting the twisting. This unique feature ensures greater security during extreme weather and a longer system lifetime.

Corrosion-Resistant Materials



Compatible with Flat & Pitched Roofs



IronRidge offers a range of tilt leg options for flat roof mounting applications.

All XR Rails are made of marine-grade aluminum alloy, then protected with an anodized finish. Anodizing prevents surface and structural corrosion, while also providing a more attractive appearance.



XR Rail Family

The XR Rail Family offers the strength of a curved rail in three targeted sizes. Each size supports specific design loads, while minimizing material costs. Depending on your location, there is an XR Rail to match.



XR10 is a sleek, low-profile mounting rail, designed for regions with light or no snow. It achieves 6 foot spans, while remaining light and economical.

- 6' spanning capability
- Moderate load capability

Rail Selection

None

10-20

30

40

50-70

80-90

- Clear anodized finish
- Internal splices available

Load

Snow (PSF) Wind (MPH)

100

120

140

160

100 120

140 160 100

160

100

160

160

160



XR100

Building Height of 30 ft. Visit IronRidge.com for detailed span tables and certifications.

XR10

5' 4"

XR100 is the ultimate residential mounting rail. It supports a range of wind and snow conditions, while also maximizing spans up to 8 feet.

- · 8' spanning capability
- · Heavy load capability Clear & black anodized finish
- Internal splices available

The following table was prepared in compliance with applicable engineering codes and standards. Values are based on the following criteria: ASCE 7-10, Roof Zone 1, Exposure B, Roof Slope of 7 to 27 degrees and Mean



XR1000

XR1000 is a heavyweight among solar mounting rails. It's built to handle extreme climates and spans 12 feet or more for commercial applications.

12' spanning capability

XR1000

- · Extreme load capability
- · Clear anodized finish · Internal splices available

Rail Span

XR100

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> SHEET SIZE ANSI B

11" X 17"

SHEET NUMBER PV-14



DATE

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DESCRIPTION

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UFO Family of Components

Simplified Grounding for Every Application

The UFO family of components eliminates the need for separate grounding hardware by bonding solar modules directly to IronRidge XR Rails. All system types that feature the UFO family—Flush Mount, Tilt Mount and Ground Mount—are fully listed to the UL 2703 standard.

UFO hardware forms secure electrical bonds with both the module and the rail, resulting in many parallel grounding paths throughout the system. This leads to safer and more reliable installations



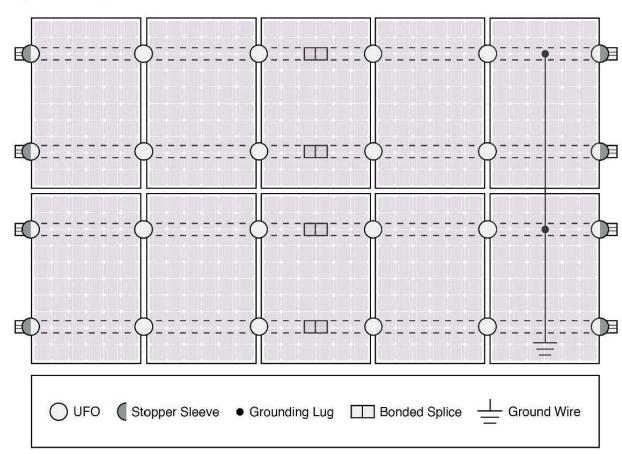




Grounding Lug
A single Grounding Lug
connects an entire row
of PV modules to the
grounding conductor.

Bonded Attachments
The bonding bolt attaches
and bonds the L-foot to the
rail. It is installed with the
same socket as the rest of the

System Diagram



Q Approved Enphase microinverters can provide equipment grounding of IronRidge systems, eliminating the need for grounding lugs and field installed equipment ground conductors (EGC). A minimum of two microinverters mounted to the same rail and connected to the same Engage cable is required. Refer to installation manuals for additional details.

UL Certification

The IronRidge Flush Mount, Tilt Mount, and Ground Mount Systems have been listed to UL 2703 by Intertek Group plc.

UL 2703 is the standard for evaluating solar mounting systems. It ensures these devices will maintain strong electrical and mechanical connections over an extended period of time in extreme outdoor environments.

Go to IronRidge.com/UFO

	Cross-System	Compatibility	
Feature	Flush Mount	Tilt Mount	Ground Mount
XR Rails	~	•	XR1000 Only
UFO/Stopper	~	~	~
Bonded Splice	~	~	N/A
Grounding Lugs	1 per Row	1 per Row	1 per Array
Microinverters & Power Optimizers	Darfon - N	0-72, M250-60, M2 /IG240, MIG300, G P320, P400, P405	
Fire Rating	Class A	Class A	N/A
Modules		ated with over 400 llation manuals for	



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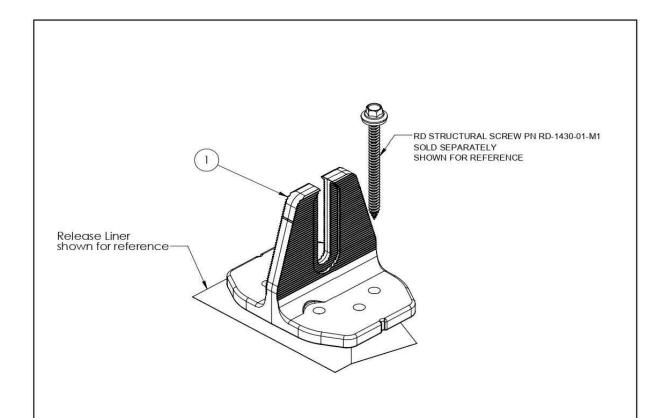
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QuickMount® Halo UltraGrip



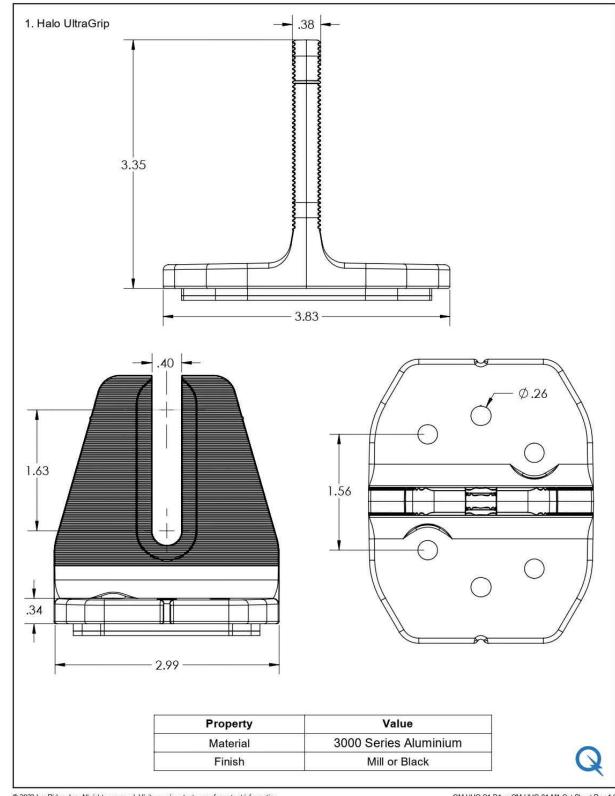
ITEM NO	DESCRIPTION	QTY IN KIT
1	QM Halo UltraGrip(Mill or Black)	1

PART NUMBER	DESCRIPTION
QM-HUG-01-M1	Halo UltraGrip - Mill
QM-HUG-01-B1	Halo UltraGrip - Black



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QM-HUG-01-B1 or QM-HUG-01-M1 Cut Sheet Rev 1.0



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QM-HUG-01-B1 or QM-HUG-01-M1 Cut Sheet Rev 1.0

TOP TIER SOLAR SOLUTIONS

1530 CENTER PARK DR #2911, CHARLOTTE, NC 28217, UNITED STATES

REVISION	S	
DESCRIPTION	DATE	REV
INITIAL DESIGN	12/11/2023	
AS BUILT	12/14/2023	Α

PROJECT NAME & ADDRESS

BRIAN WOODS RESIDENCE

DRAWN BY **ESR**

444 DEER VIEW, SANFORD, NC 27332

SHEET NAME **EQUIPMENT SPECIFICATION**

SHEET SIZE

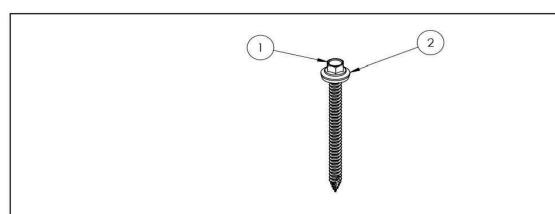
ANSI B 11" X 17"

SHEET NUMBER





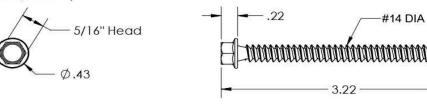
QuickMount® RD Structural Screw



ITEM NO	DESCRIPTION	QTY IN KIT
1	Self Drilling Screw, #14, Wood Tip	1
2	Washer, EPDM Backed	1

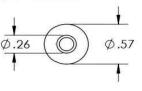
PART NUMBE	R DESCRIPTION
RD-1430-01-M	1 RD Structural Screw

1. Self Drilling Screw, #14, Wood Tip



Property	Value	
Material	300 Series Stainless Steel	
Finish	Clear	

2. Washer, EPDM Backed





Property	Value	
Material	300 Series Stainless Steel	
Finish	Clear	



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QM-RD-1430-01-M1 Cut Sheet Rev 1.0



TOP TIER SOLAR SOLUTIONS

1530 CENTER PARK DR #2911, CHARLOTTE, NC 28217, UNITED STATES

REVISIONS		
DESCRIPTION	DATE	REV
INITIAL DESIGN	12/11/2023	
AS BUILT	12/14/2023	Α

PROJECT NAME & ADDRESS

BRIAN WOODS RESIDENCE 444 DEER VIEW, SANFORD, NC 27332

DRAWN BY

SHEET NAME
EQUIPMENT
SPECIFICATION

SHEET SIZE

ANSI B

11" X 17"

SHEET NUMBER



PHONE: 385-202-4150 WWW.EZSOLARPRODUCTS.COM



PHONE: 385-202-4150 WWW.EZSOLARPRODUCTS.COM

REV

SHEET 2 OF 3

SIZE

SCALE: 1:2

DWG. NO.

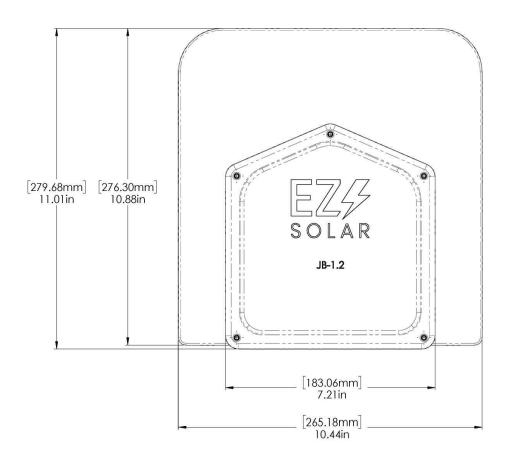
JB-1.2

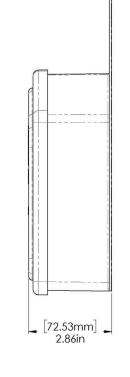
WEIGHT: 1.45 LBS

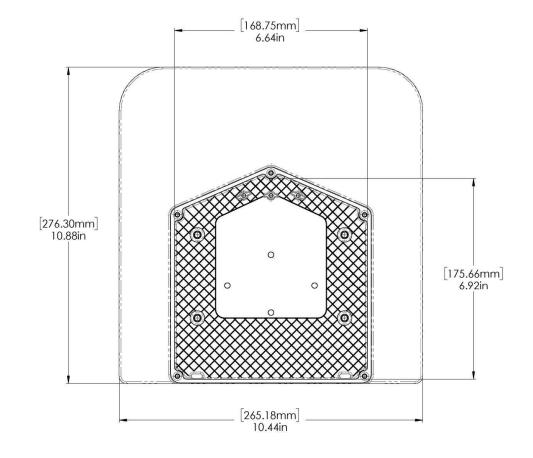
ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	JB-1.2 BODY	POLYCARBONATE WITH UV INHIBITORS	1
2	JB-1.2 LID	POLYCARBONATE WITH UV INHIBITORS	1
3	#10 X 1-1/4" PHILLIPS PAN HEAD SCREW		6
4	#8 X 3/4" PHILLIPS PAN HEAD SCREW		6

SIZE	DWG. NO.		REV
В	JB-1.2		
SCALE: 1:2	WEIGHT: 1.45 LBS	SHEE	T 1 0F 3

TORQUE SPECIFICATION:	15-20 LBS
CERTIFICATION:	UL 1741, NEMA 3R CSA C22.2 NO. 290
WEIGHT:	1.45 LBS









TOP TIER SOLAR SOLUTIONS

1530 CENTER PARK DR #2911, CHARLOTTE, NC 28217, UNITED STATES

REVISIONS		
DESCRIPTION	DATE	REV
INITIAL DESIGN	12/11/2023	
AS BUILT	12/14/2023	A

PROJECT NAME & ADDRESS

BRIAN WOODS RESIDENCE

444 DEER VIEW, SANFORD, NC 27332

DRAWN BY **ESR**

SHEET NAME **EQUIPMENT SPECIFICATION**

> SHEET SIZE ANSI B

11" X 17" SHEET NUMBER

